

Abstract of the Disclosure

1 A compression journal for transfer of microwave signals  
2 across a rotating interface of a rotary joint comprises a  
3 silver impregnated graphite split ring stator which surrounds  
4 and is in contact with a coin silver sleeve of a shaft rotor  
5 when a rotor assembly is positioned within a stator assembly.  
6 At least one O-ring is placed over the outside of the split  
7 ring stator to allow slight compression of the silver/graphite  
8 split ring stator to maintain continuous electrical contact  
9 between the stator and the rotor. A beryllium-copper radial  
10 shield is secured to the end of the compression journal  
11 securing it within a cavity of the stator assembly. The  
12 compression journal floats within the stator assembly to allow  
13 rotor/stator concentricities to adjust and seat properly for  
14 long term performance.